FIG.1

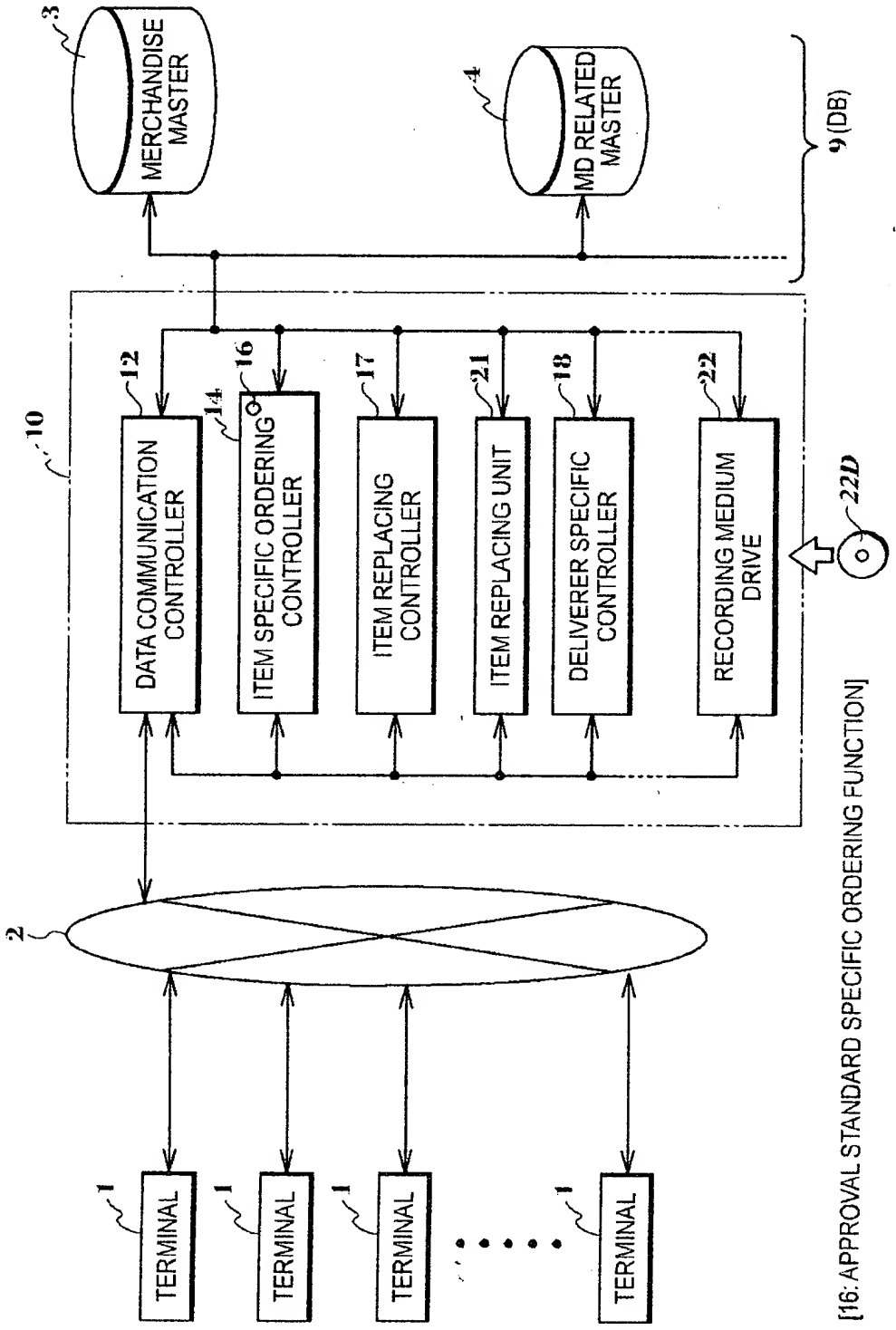

3
MERCHANDISE MASTER
4
MD RELATED MASTER
9 (DB)
10
12
14
16
17
21
18
22
DATA COMMUNICATION CONTROLLER
ITEM SPECIFIC ORDERING CONTROLLER
ITEM REPLACING CONTROLLER
ITEM REPLACING UNIT
DELIVERER SPECIFIC CONTROLLER
RECORDING MEDIUM DRIVE
22D
2
1
TERMINAL
TERMINAL
TERMINAL
TERMINAL
[16: APPROVAL STANDARD SPECIFIC ORDERING FUNCTION]

FIG.2

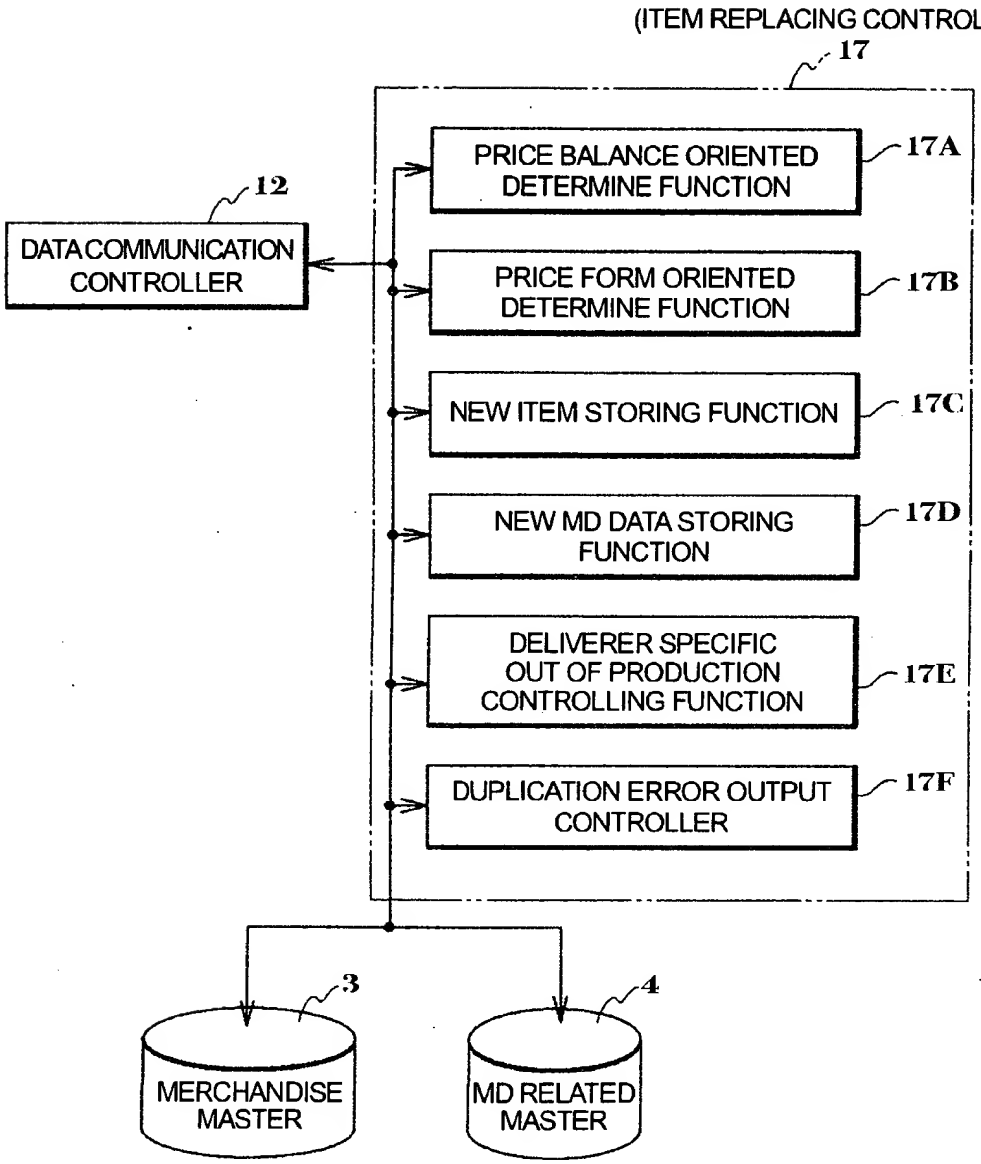

(ITEM REPLACING CONTROLLER)
17
PRICE BALANCE ORIENTED DETERMINE FUNCTION
17A
12
DATA COMMUNICATION CONTROLLER
PRICE FORM ORIENTED DETERMINE FUNCTION
17B
NEW ITEM STORING FUNCTION
17C
NEW MD DATA STORING FUNCTION
17D
DELIVERER SPECIFIC OUT OF PRODUCTION CONTROLLING FUNCTION
17E
DUPLICATION ERROR OUTPUT CONTROLLER
17F
3
4
MERCHANDISE MASTER
MD RELATED MASTER

FIG.3

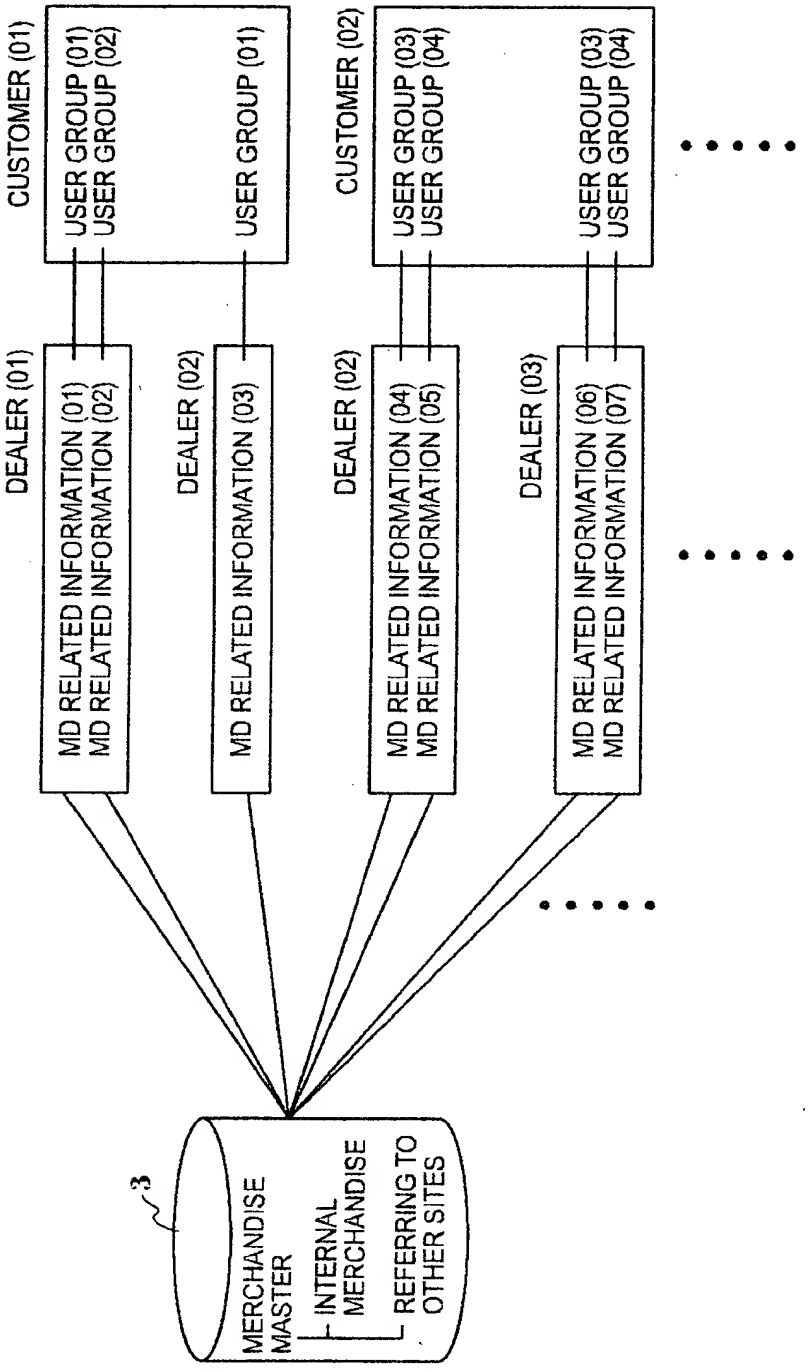

CUSTOMER (01)
USER GROUP (01)
USER GROUP (02)
USER GROUP (01)
CUSTOMER (02)
USER GROUP (03)
USER GROUP (04)
USER GROUP (03)
USER GROUP (04)
DEALER (01)
MD RELATED INFORMATION (01)
MD RELATED INFORMATION (02)
DEALER (02)
MD RELATED INFORMATION (03)
DEALER (02)
MD RELATED INFORMATION (04)
MD RELATED INFORMATION (05)
DEALER (03)
MD RELATED INFORMATION (06)
MD RELATED INFORMATION (07)
3
MERCHANDISE MASTER
INTERNAL MERCHANDISE
REFERRING TO OTHER SITES

FIG.4

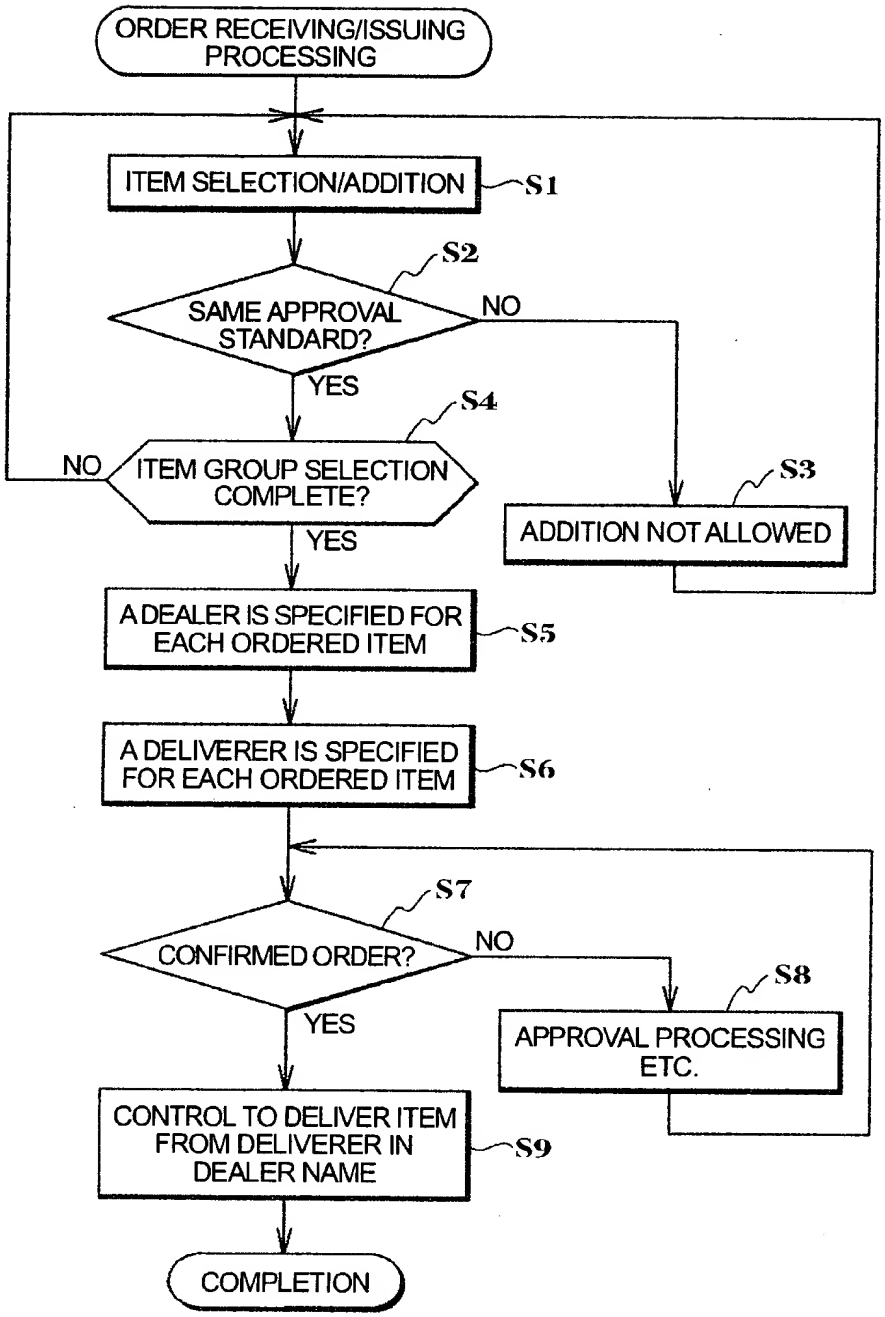
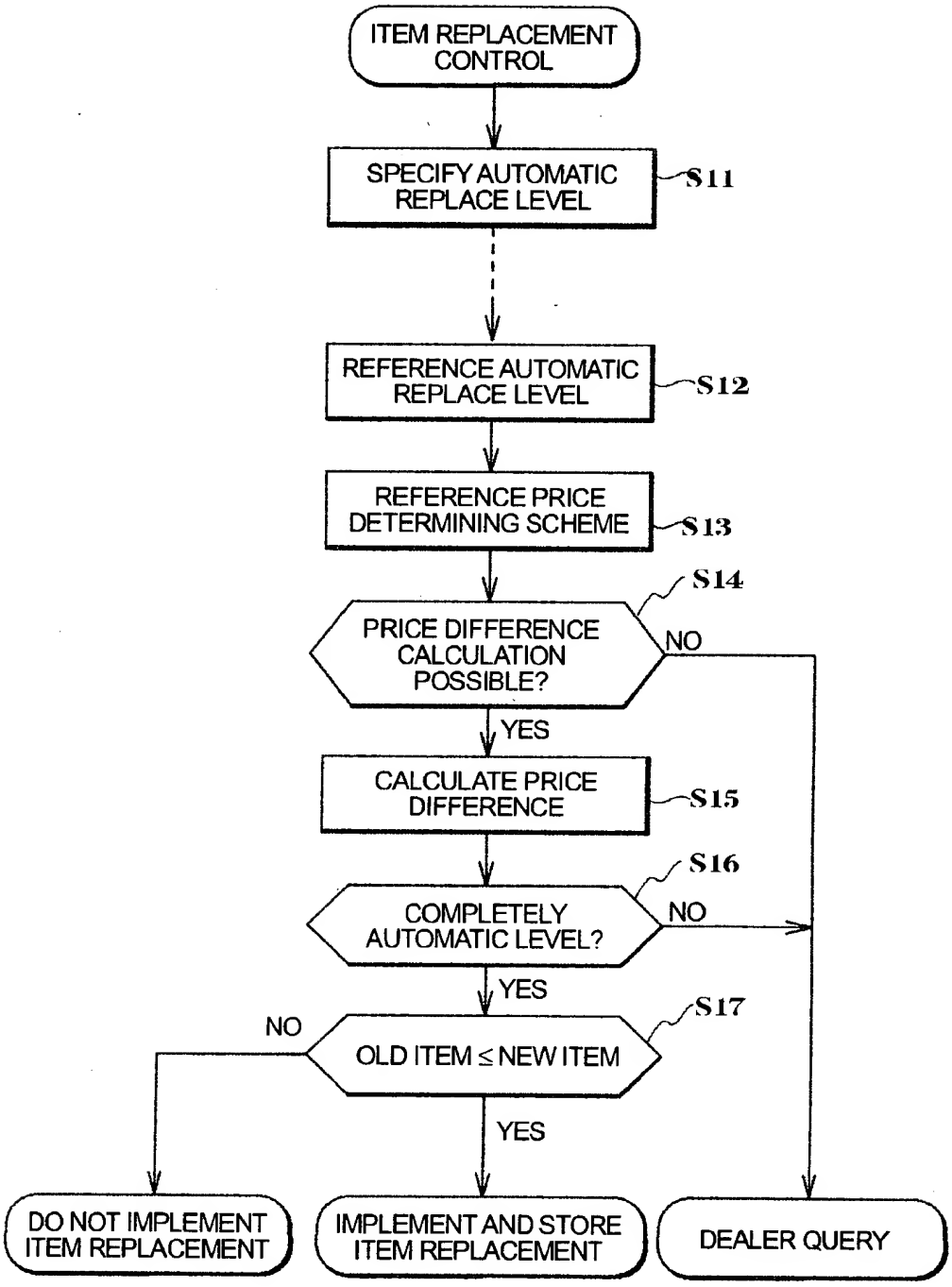

ORDER RECEIVING/ISSUING PROCESSING
ITEM SELECTION/ADDITION
S1
S2
SAME APPROVAL STANDARD?
NO
YES
S4
NO
ITEM GROUP SELECTION COMPLETE?
S3
ADDITION NOT ALLOWED
YES
A DEALER IS SPECIFIED FOR EACH ORDERED ITEM
S5
A DELIVERER IS SPECIFIED FOR EACH ORDERED ITEM
S6
S7
CONFIRMED ORDER?
NO
S8
YES
APPROVAL PROCESSING ETC.
CONTROL TO DELIVER ITEM FROM DELIVERER IN DEALER NAME
S9
COMPLETION

FIG.5


ITEM REPLACEMENT CONTROL
SPECIFY AUTOMATIC REPLACE LEVEL
S11
REFERENCE AUTOMATIC REPLACE LEVEL
S12
REFERENCE PRICE DETERMINING SCHEME
S13
S14
PRICE DIFFERENCE CALCULATION POSSIBLE?
NO
YES
CALCULATE PRICE DIFFERENCE
S15
S16
COMPLETELY AUTOMATIC LEVEL?
NO
YES
S17
NO
OLD ITEM ≤ NEW ITEM
YES
DO NOT IMPLEMENT ITEM REPLACEMENT
IMPLEMENT AND STORE ITEM REPLACEMENT
DEALER QUERY

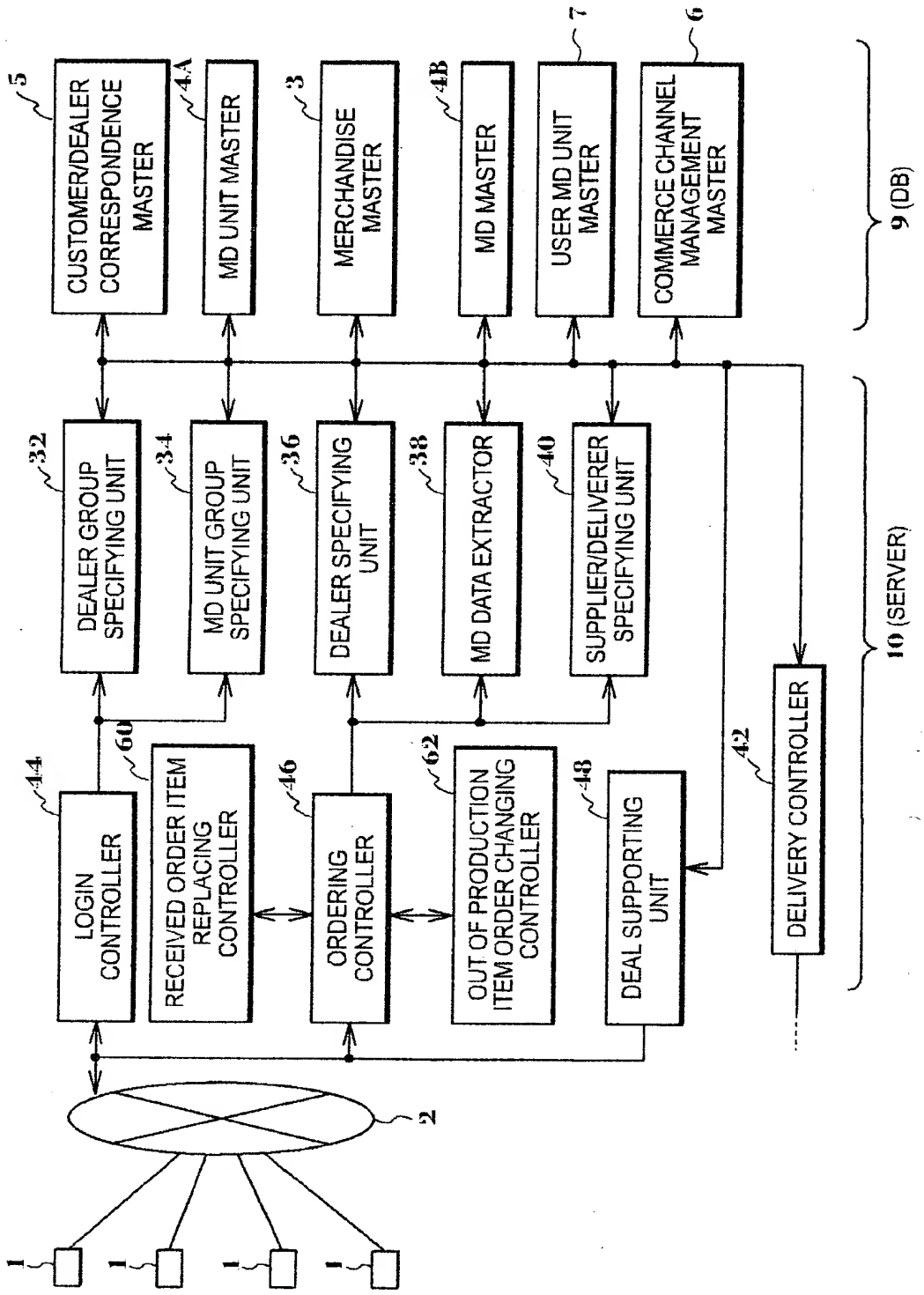

1
2
LOGIN CONTROLLER
RECEIVED ORDER ITEM REPLACING CONTROLLER
ORDERING CONTROLLER
OUT OF PRODUCTION ITEM ORDER CHANGING CONTROLLER
DEAL SUPPORTING UNIT
DELIVERY CONTROLLER
DEALER GROUP SPECIFYING UNIT
MD UNIT GROUP SPECIFYING UNIT
DEALER SPECIFYING UNIT
MD DATA EXTRACTOR
SUPPLIER/DELIVERER SPECIFYING UNIT
CUSTOMER/DEALER CORRESPONDENCE MASTER
MD UNIT MASTER
MERCHANDISE MASTER
MD MASTER
USER MD UNIT MASTER
COMMERCE CHANNEL MANAGEMENT MASTER
9 (DB)
10 (SERVER)

FIG.6

FIG.7

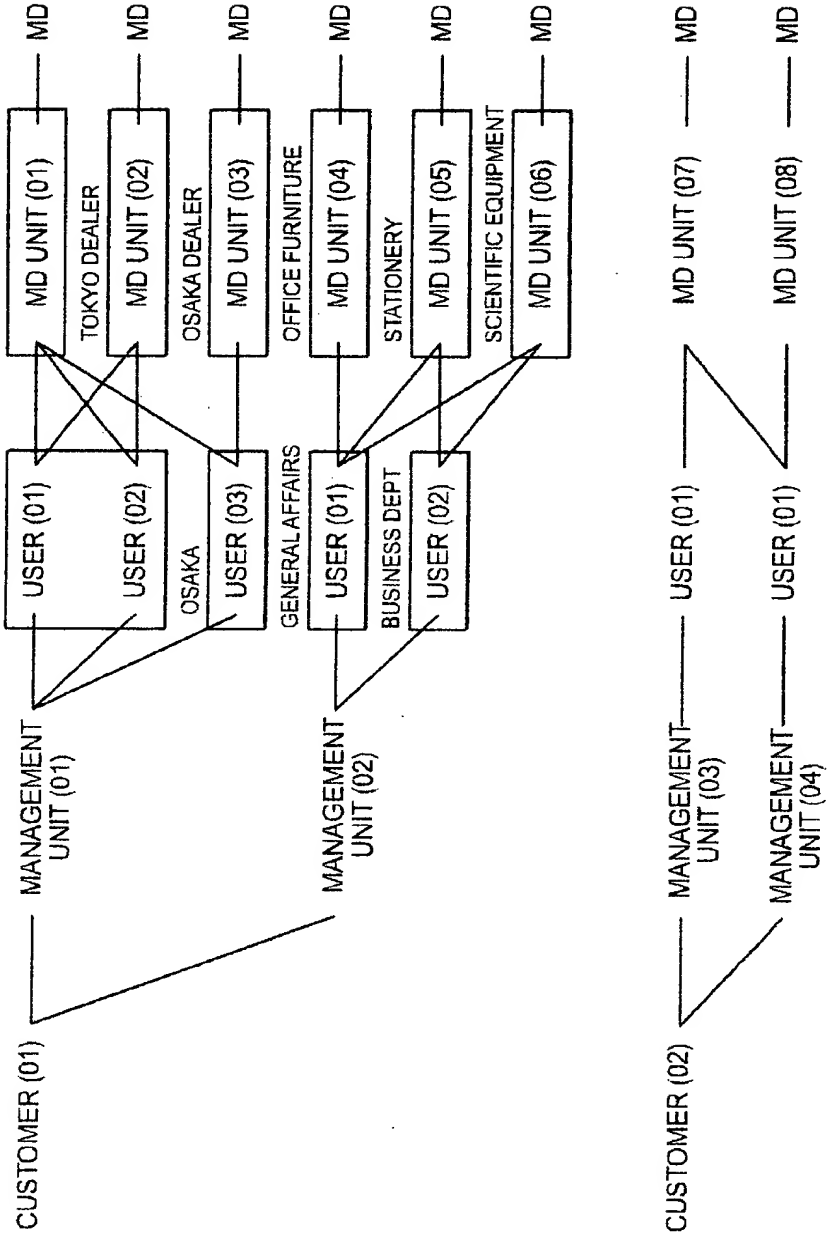

CUSTOMER (01)
CUSTOMER (02)
MANAGEMENT UNIT (01)
MANAGEMENT UNIT (02)
MANAGEMENT UNIT (03)
MANAGEMENT UNIT (04)
TOKYO
OSAKA
GENERAL AFFAIRS
BUSINESS DEPT
USER (01)
USER (02)
USER (03)
USER (01)
USER (02)
USER (01)
USER (01)
NATIONWIDE DEALER
TOKYO DEALER
OSAKA DEALER
OFFICE FURNITURE
STATIONERY
SCIENTIFIC EQUIPMENT
MD UNIT (01)
MD UNIT (02)
MD UNIT (03)
MD UNIT (04)
MD UNIT (05)
MD UNIT (06)
MD UNIT (07)
MD UNIT (08)
MD
MD
MD
MD
MD
MD
MD
MD

FIG.8

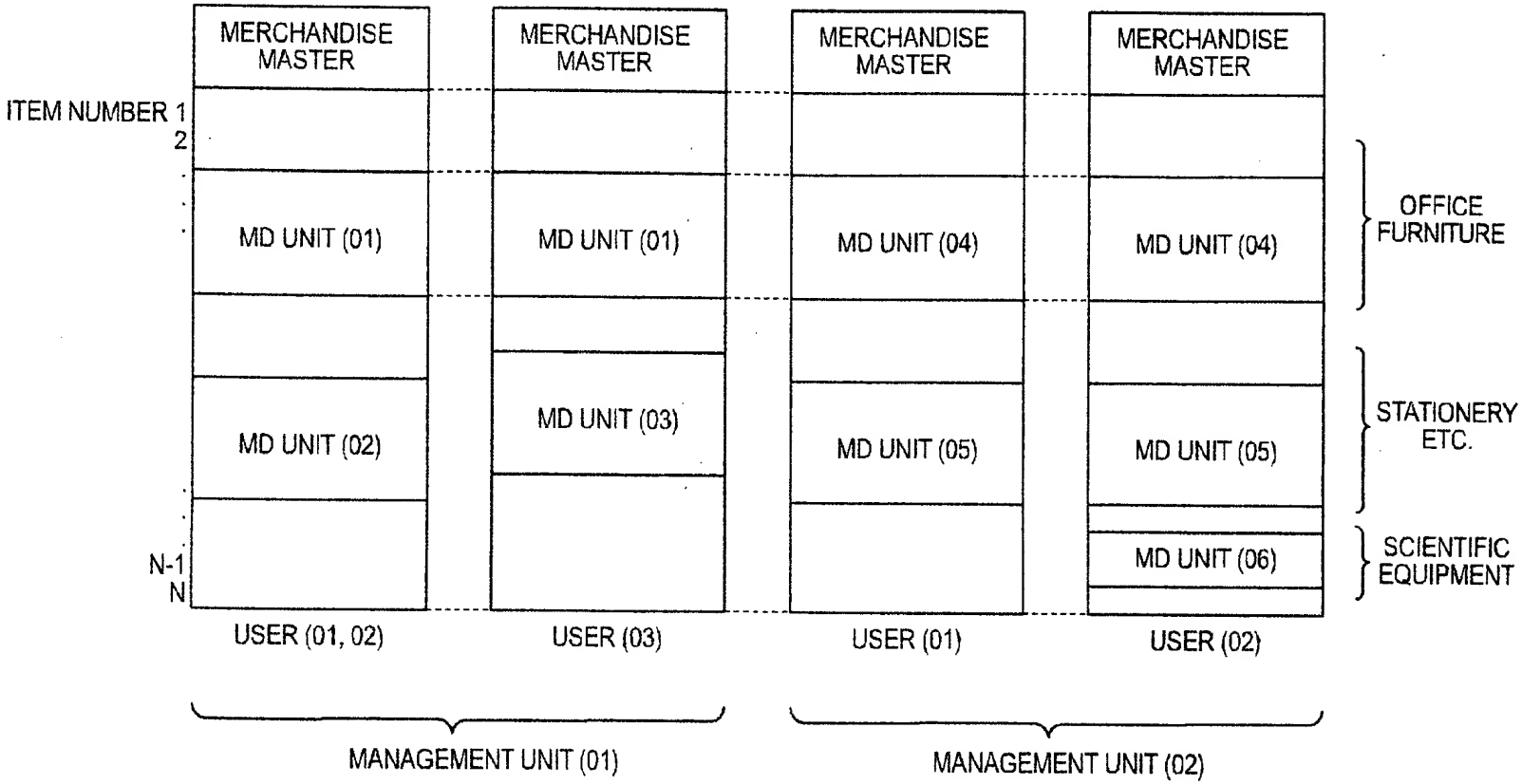
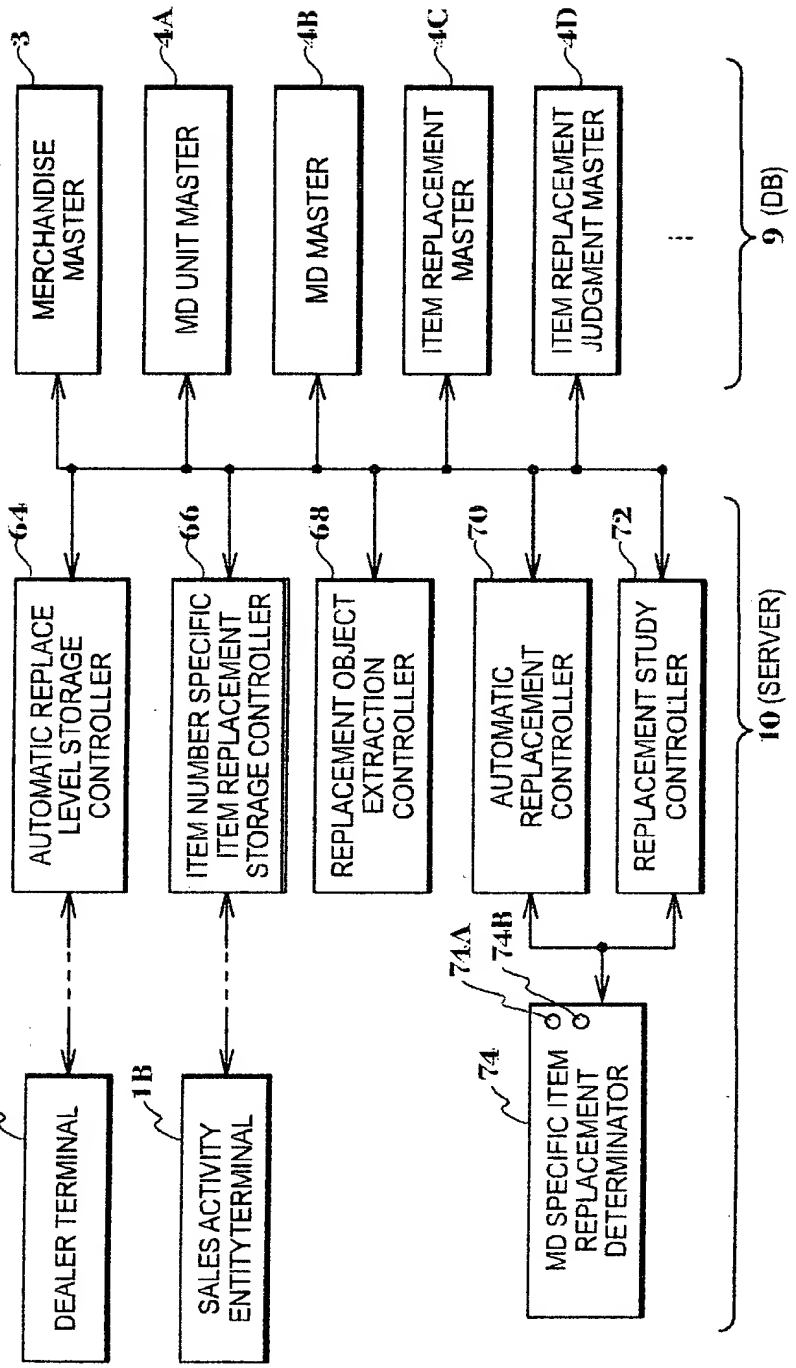

MERCHANDISE MASTER
MERCHANDISE MASTER
MERCHANDISE MASTER
MERCHANDISE MASTER
ITEM NUMBER 1
2
MD UNIT (01)
MD UNIT (01)
MD UNIT (04)
MD UNIT (04)
MD UNIT (02)
MD UNIT (03)
MD UNIT (05)
MD UNIT (05)
MD UNIT (06)
N-1
N
OFFICE FURNITURE
STATIONERY ETC.
SCIENTIFIC EQUIPMENT
USER (01, 02)
USER (03)
USER (01)
USER (02)
MANAGEMENT UNIT (01)
MANAGEMENT UNIT (02)

FIG.9


3
MERCHANDISE MASTER
4A
MD UNIT MASTER
4B
MD MASTER
4C
ITEM REPLACEMENT MASTER
4D
ITEM REPLACEMENT JUDGMENT MASTER
9 (DB)
64
AUTOMATIC REPLACE LEVEL STORAGE CONTROLLER
66
ITEM NUMBER SPECIFIC ITEM REPLACEMENT STORAGE CONTROLLER
68
REPLACEMENT OBJECT EXTRACTION CONTROLLER
70
AUTOMATIC REPLACEMENT CONTROLLER
72
REPLACEMENT STUDY CONTROLLER
10 (SERVER)
1A
DEALER TERMINAL
1B
SALES ACTIVITY ENTITYTERMINAL
74A
74B
74
MD SPECIFIC ITEM REPLACEMENT DETERMINATOR

20070 dn23660

FIG.10

AUTOMATIC IMPLEMENTATION LEVEL	APPLICABLE RATE	(PRICE INCREASE)	(SAME PRICE)	(PRICE REDUCTION)
VERIFICATION SCHEME		PRICE SET BY DEALER	EXECUTE AUTOMATIC REPLACEMENT	PRICE SET BY DEALER
INTERMEDIATE SCHEME	YES	CALCULATE PRICE, EXECUTE AUTOMATIC REPLACEMENT	EXECUTE AUTOMATIC REPLACEMENT	CALCULATE PRICE, EXECUTE AUTOMATIC REPLACEMENT
	NO	PRICE SET BY DEALER	EXECUTE AUTOMATIC REPLACEMENT	PRICE SET BY DEALER
AUTOMATIC SCHEME	YES	DO NOT EXECUTE AUTOMATIC REPLACEMENT	EXECUTE AUTOMATIC REPLACEMENT	EXECUTE AUTOMATIC REPLACEMENT (CALCULATE PRICE BY RATE)
	NO	DO NOT EXECUTE AUTOMATIC REPLACEMENT	EXECUTE AUTOMATIC REPLACEMENT	EXECUTE AUTOMATIC REPLACEMENT (SAME PRICE AS OLD ITEM PRICE)

FIG.11(A)

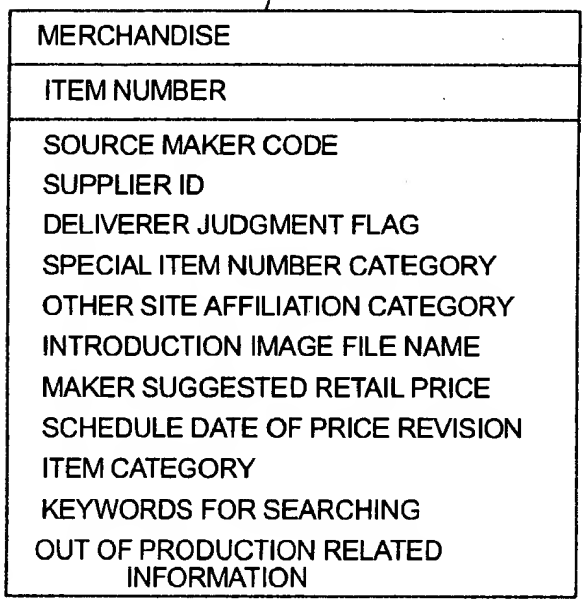


FIG.11(B)

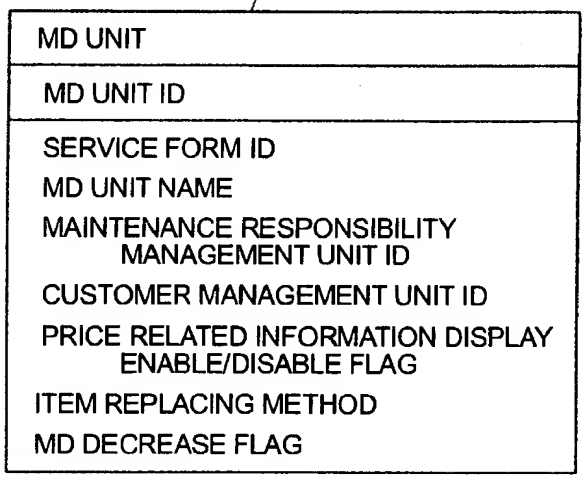


FIG.11(C)

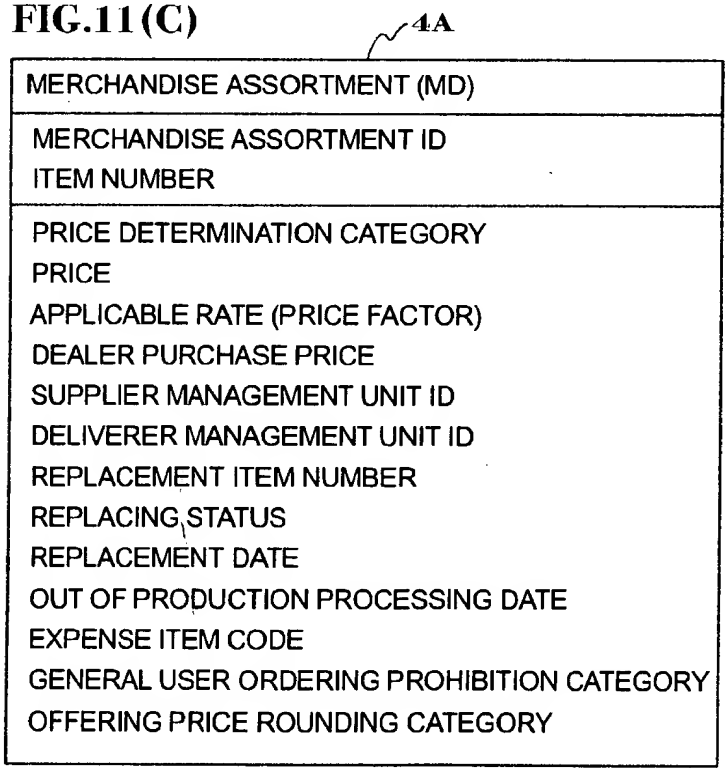


FIG.12 (A)

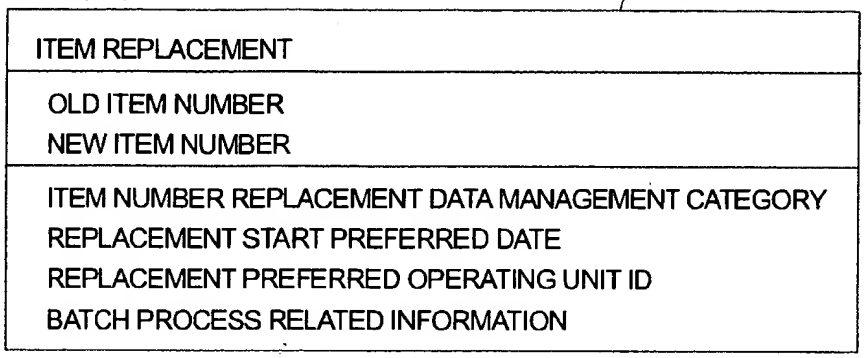


FIG.12 (B)

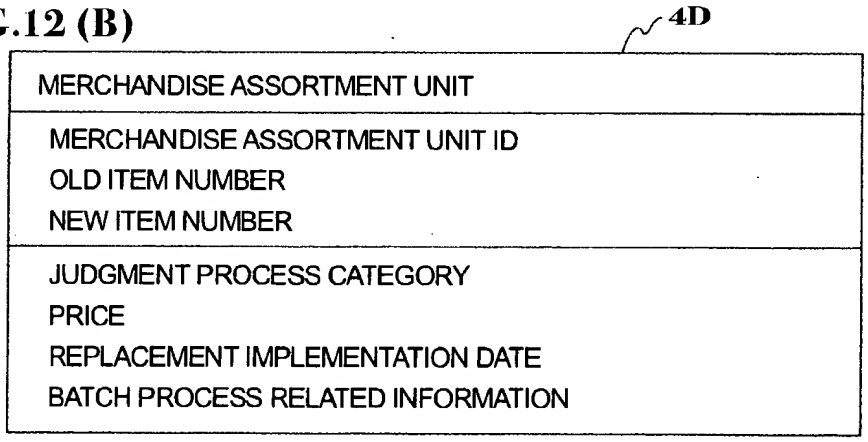


FIG.13 (A)

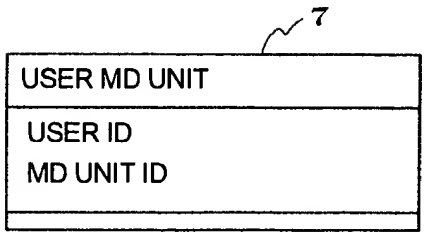


FIG.13 (B)

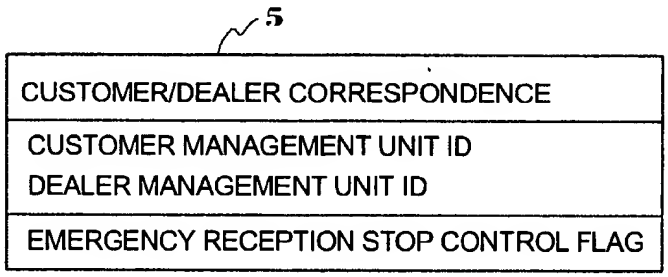


FIG.13 (C)

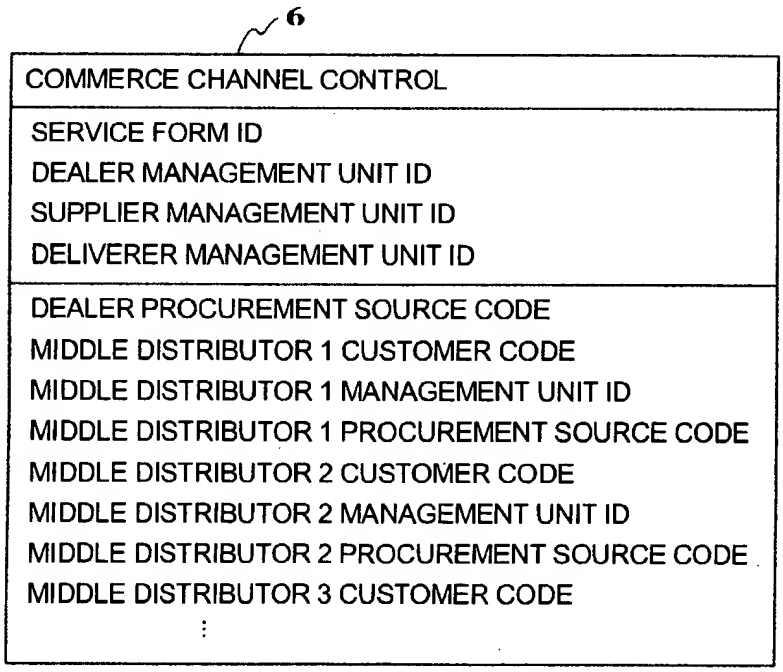


FIG.14 (A)

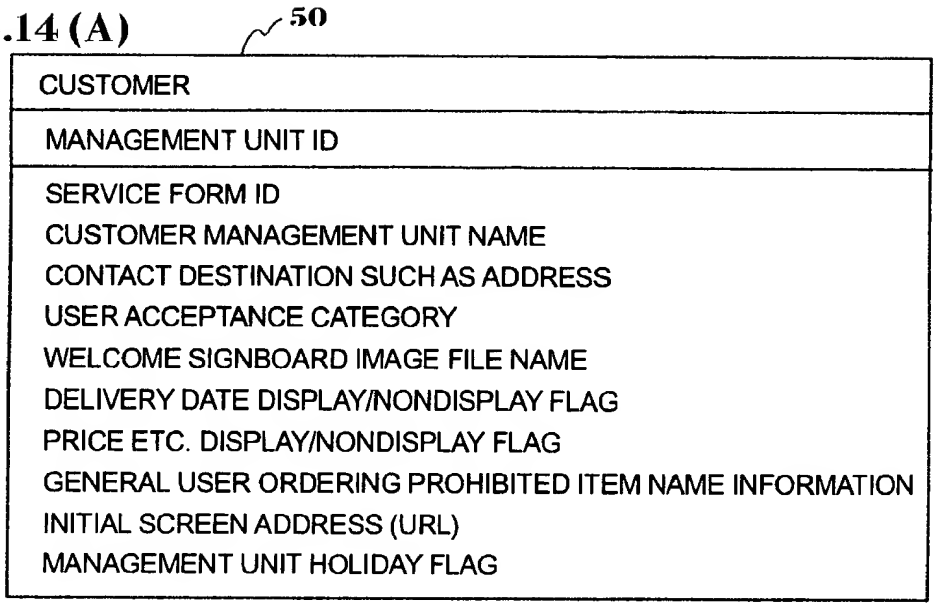


FIG.14 (B)

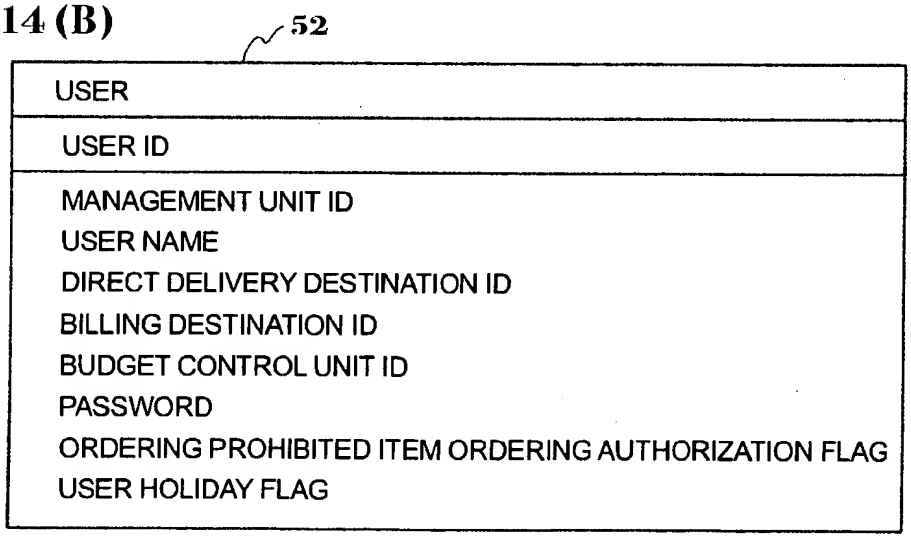


FIG.15

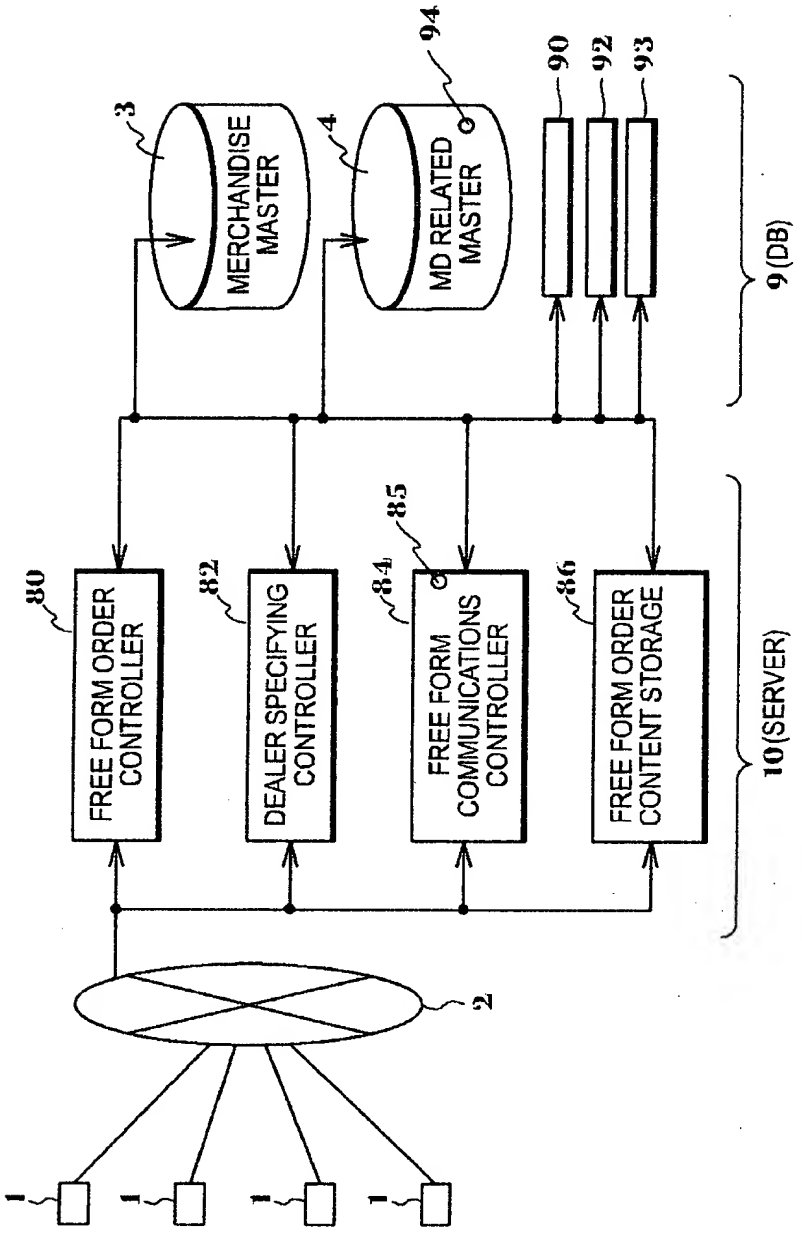
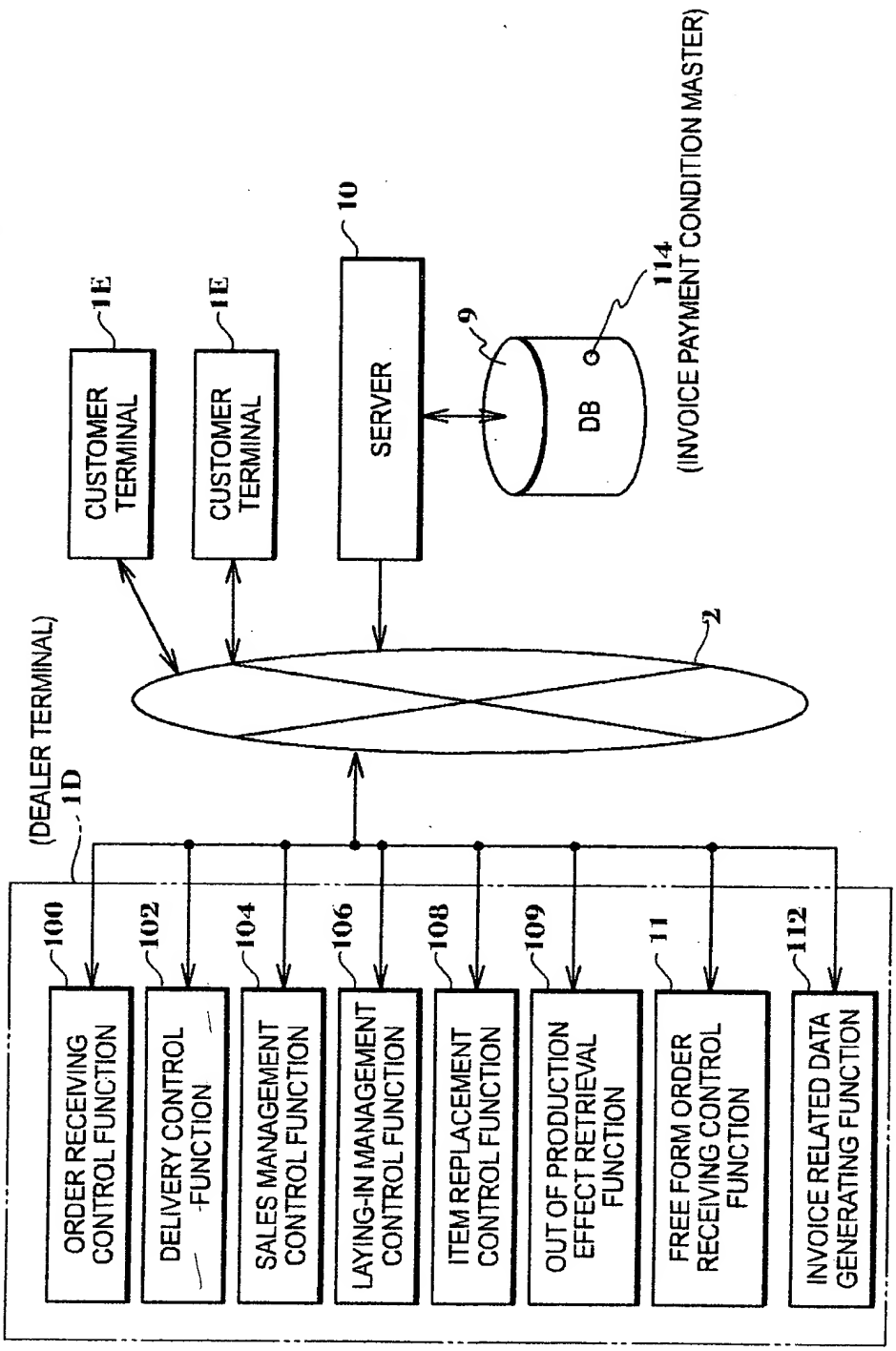

1
2
3
MERCHANDISE MASTER
4
MD RELATED MASTER
9(DB)
10(SERVER)
80
FREE FORM ORDER CONTROLLER
82
DEALER SPECIFYING CONTROLLER
84
FREE FORM COMMUNICATIONS CONTROLLER
85
86
FREE FORM ORDER CONTENT STORAGE
90
92
93
94

FIG.16


(DEALER TERMINAL)
1D
CUSTOMER TERMINAL
1E
CUSTOMER TERMINAL
1E
SERVER
10
DB
9
114
(INVOICE PAYMENT CONDITION MASTER)
2
ORDER RECEIVING CONTROL FUNCTION
100
DELIVERY CONTROL FUNCTION
102
SALES MANAGEMENT CONTROL FUNCTION
104
LAYING-IN MANAGEMENT CONTROL FUNCTION
106
ITEM REPLACEMENT CONTROL FUNCTION
108
OUT OF PRODUCTION EFFECT RETRIEVAL FUNCTION
109
FREE FORM ORDER RECEIVING CONTROL FUNCTION
11
INVOICE RELATED DATA GENERATING FUNCTION
112